

CCTTTCATAGAGAACAAAGAACTAAAGAAATTCGTGACAAATGGACAATATAATTGGCCCAGTGTTCTCCTCCT  
 CATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA  
 GGATCCCTTCTTAAACAACCTGGAGACGTAATAACCCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATAT  
 TTAACAGAAAACACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT  
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTTTAGGTACTGACAAGATGGAAGTC  
 AACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT  
 CATTAGTGGTTCTCTTTATAACCTTTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTC  
 GATGGCACACACTGTGACCACTGTCTCTTATCTGAACCTTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA  
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTTGGTTGGTTTCTTTGCAAATTAGTTCACATAATTG  
 CAAACATAAACCTTTTTGTAAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCC  
 AGTATGGTCTCAGAATCACCGAACCTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTG  
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG  
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT  
 CATTATTGGATTACAGCATGCCCATGTCTTTTCATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA  
 GGCTTTGTGAATTCCAGTCGTCTTTACGTGTCTCACTGCTGTAGCGATTTCTTTCTTTGTCTGTTGGTTCCCTTT  
 TTCAATTAATTATGCTTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTTCATATGTTGGTTAACCCAGC  
 AAATACCTTGGCTTCCTTTAACAGCTGCCTCAACCCAATACTCTATGTATTCCTGGGTGAGGAATTCAGAGACAGA  
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGA  
 GCACTGACACAGACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT  
 GGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA  
 GAATCTCTCTGATTCTGATTTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALESLSFMV  
 TLPLHIIISMVMRGKWLFGWFLCKLVHIIANINLFVSIFLITLIAMDRICVLCPVWSQNHRTVSLARKVVLGAWIF  
 ALLLTLPHFLFLTTRDARGDVYCISKFESWATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI  
 CRRGFVNSSRPLRVLTAVAISSFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNCLNPILYVFLGQEF  
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAAATTGGC  
 CCAGTGTTCTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC  
 AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT  
 AATAACCCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC  
 CACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG  
 AGGTAGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTAG  
 GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT  
ATGATTCTACCACCTCAAGTGTTCTATGGATCCTCTCATTAGTGGTTCTCTTTATAACCT  
TTGTCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCAGATGGCAC  
ACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTCATGGTTA  
 CTCTACCACTTCACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC  
 TTTGCAAATTAGTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA  
 CTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCAGTATGGTCTCAGAATCACC  
 GAAGTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA  
 CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA  
 TATCTAAATTTGAATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG  
 CTGCCACAGCTTCAGGAATCATCAATTTTATTATTGGATTTCAGCATGCCCATGTCTTTCA  
 TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTCCA  
 GTCGTCCTTTACGTGTCTCACTGCTGTAGCGATTTTCTTCTTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCTATA  
 TGTTGGTTAAACCCAGCAAATACCTTGGCTTCTTTAACAGCTGCCCAACCCAATACTCT  
 ATGTATTCTCTGGGTCAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG  
 AGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGAGCACTGACACAG  
 ACAGCAACTTGTCTTCATGAAGTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC  
 CAATGGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGA  
 AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTGGAAGACAGAAGT

FIGURE 2A

Gene Sequence  
Structure \*

399 bp

Sequence Deleted

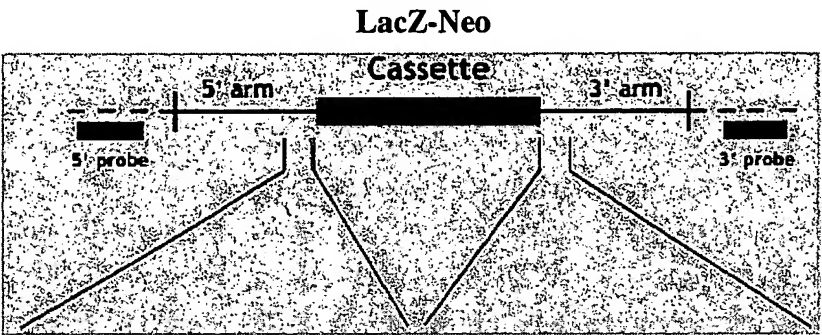
549 bp

Size of CDS: 1554 bp



Targeting Vector\*  
(genomic sequence)

Arm Length:  
5': 0.3 kb  
3': 6 kb



\* Not drawn to scale

|  |   |
|--|---|
| <p>5'&gt;CATAGAATTAAGATTTCCATA<br/>GGGATATTTAACAGAAAACCACAT<br/>TTACTCTATTACCCCTAGAATAGG<br/>TACTTTTTTAAAAATAGAAGGTGATG<br/>TGGGATCTGAGGTAAGGCGGGACA<br/>AGATGGAGACACATCTGAAAAATA<br/>GTTATTGTTGAAAATTTTGTAGGTG<br/>CTGACAAGATGGAAGTCAACATTT<br/>CAATGCCTCTG&lt;3'<br/>(SEQ ID NO:3)</p> | <p>5'&gt;CCACTGTCTCTTATCTGAACT<br/>TGGCTTTGAGTGATTTATCTTTCA<br/>TGGCTACTCTACCACTTCACATCA<br/>TCTCAATGGTCATGAGAGGAAAAT<br/>GGCTTTTTGGTTGGTTTCTTTGCA<br/>AATTAGTTCACATAATTGCAAACA<br/>TAAACCTTTTTGTAAGTATCTTCC<br/>TAATCACTCTTATTGCCATGGATC<br/>GCTGTATTTGT&lt;3'<br/>(SEQ ID NO:4)</p> |
|--|---|

FIGURE 2B

# Open Field Summary Data - Percent in Central

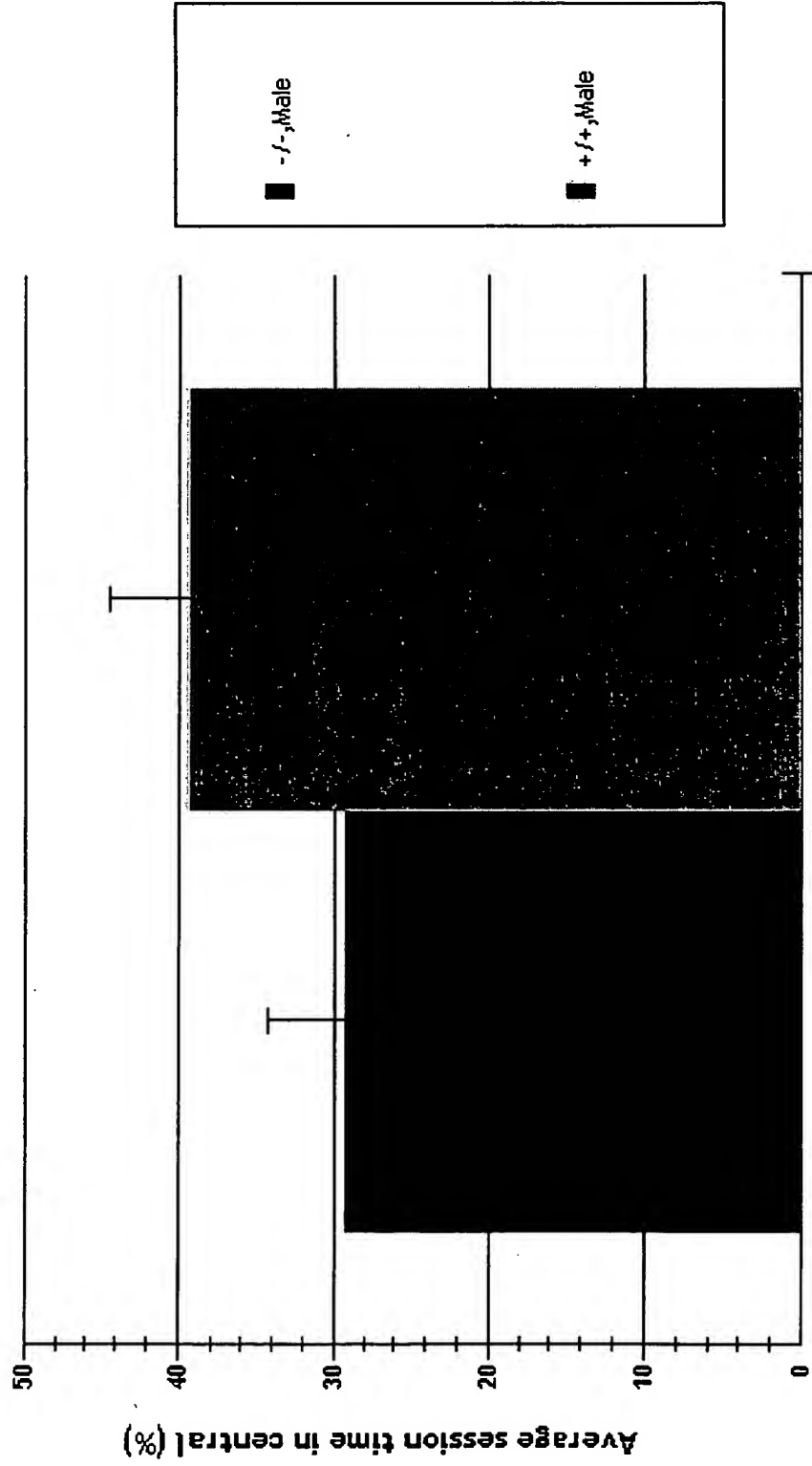


FIGURE 3

# Rotarod

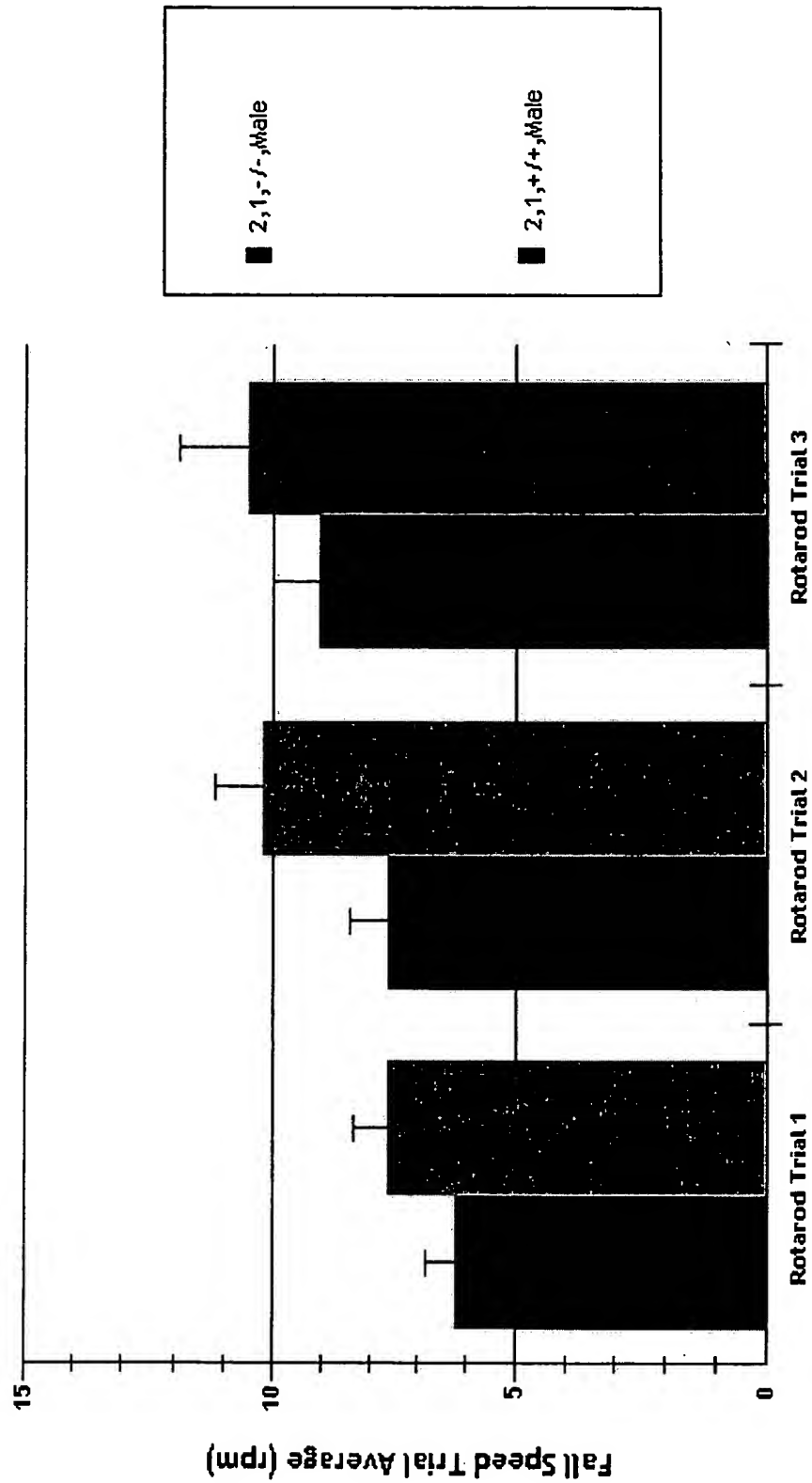


FIGURE 4

1302T 56T5003T

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# Metrazol

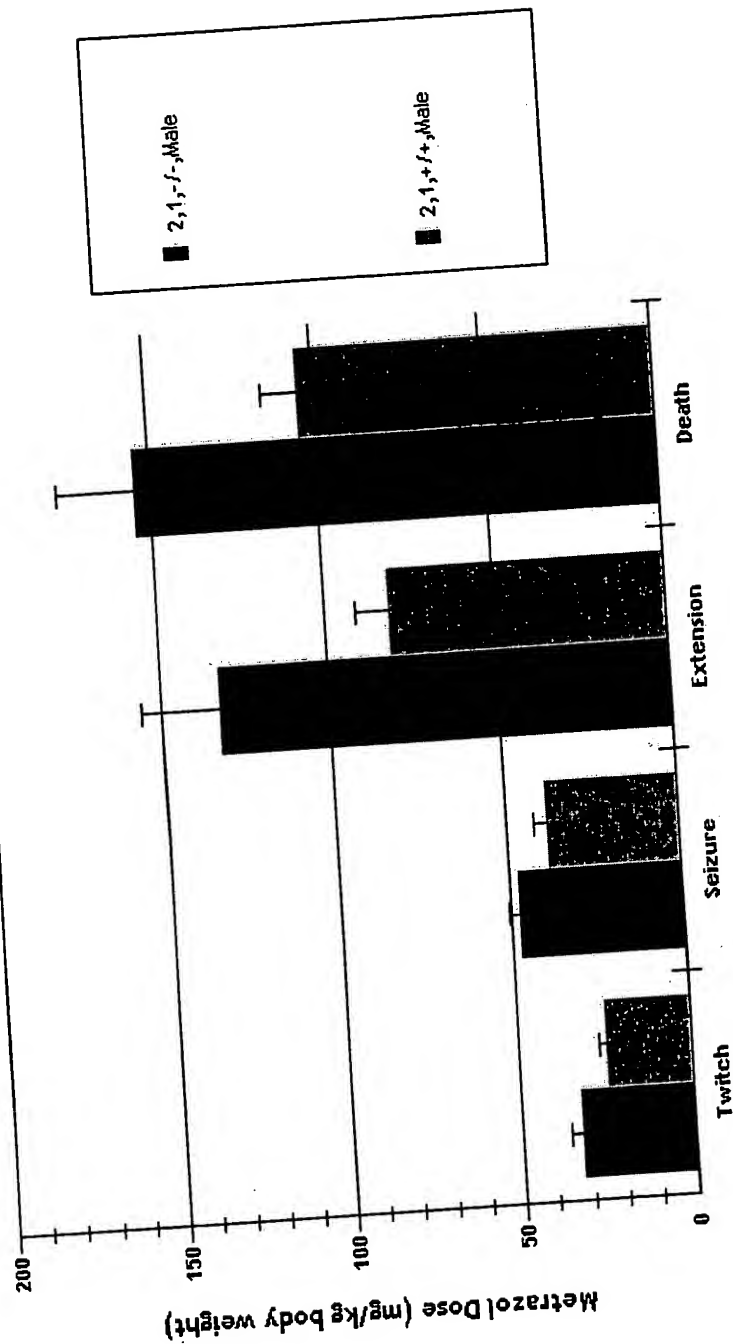


FIGURE 5